

December 4, 2014

5th
6th

Starter

Solve each.

① $2k = -24$ ② $-15 = -3k$

③ $\frac{c}{-7} = 11$

④ $-13 = \frac{x}{32}$

12/4 - Solving One-Step Multiply/divide Equations with Rational Numbers (Fractions)

How would you get the variable by itself in each of these situations?

Multiply both sides by the reciprocal of the coefficient

$n + \frac{5}{-5}$ $n + (-5)$ $n - 5$ $\frac{5n}{5}$	$n - \frac{5}{+5}$ $n - (-5)$ $n + 5$ $\frac{n}{5} \cdot 5$	$\frac{1}{2}n \cdot \frac{2}{1}$ $\frac{2}{3}n \cdot \frac{3}{2}$ $-1\frac{1}{4}n$ $-\frac{4}{5} \cdot -\frac{5}{4}n$
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Solve these...

Remember:

1. find the center
2. find the variable
3. get the variable by itself
4. make the variable positive

$$-\frac{20}{6} = \cancel{6k}$$

$$-3\frac{2}{6} = k$$

$$\begin{array}{r} 6 \overline{) 20} \\ \underline{-12} \\ 8 \\ \underline{-6} \\ 2 \end{array} -3\frac{1}{3} = k$$

$$\begin{array}{l} \cancel{6} \cdot \frac{-2}{\cancel{3}} = \frac{v}{\cancel{6}} \cdot \cancel{6} \\ -4 = v \end{array}$$

$$\begin{array}{l} \cancel{3} \cdot \frac{-3}{\cancel{5}} n = \frac{\cancel{18}}{\cancel{35}} \cdot \cancel{5} \\ n = \frac{-6}{7} \end{array}$$

$$\frac{-18b}{-18} = \frac{-4}{-18} \div 2$$

$$b = \frac{2}{9}$$

$$\frac{4}{1} \cdot \frac{1}{4}c = \frac{-5}{6} \cdot \frac{2}{1}$$

$$c = -\frac{10}{3}$$

$$c = -3\frac{1}{3}$$

Homework

Yellow WS 4

Due Monday

